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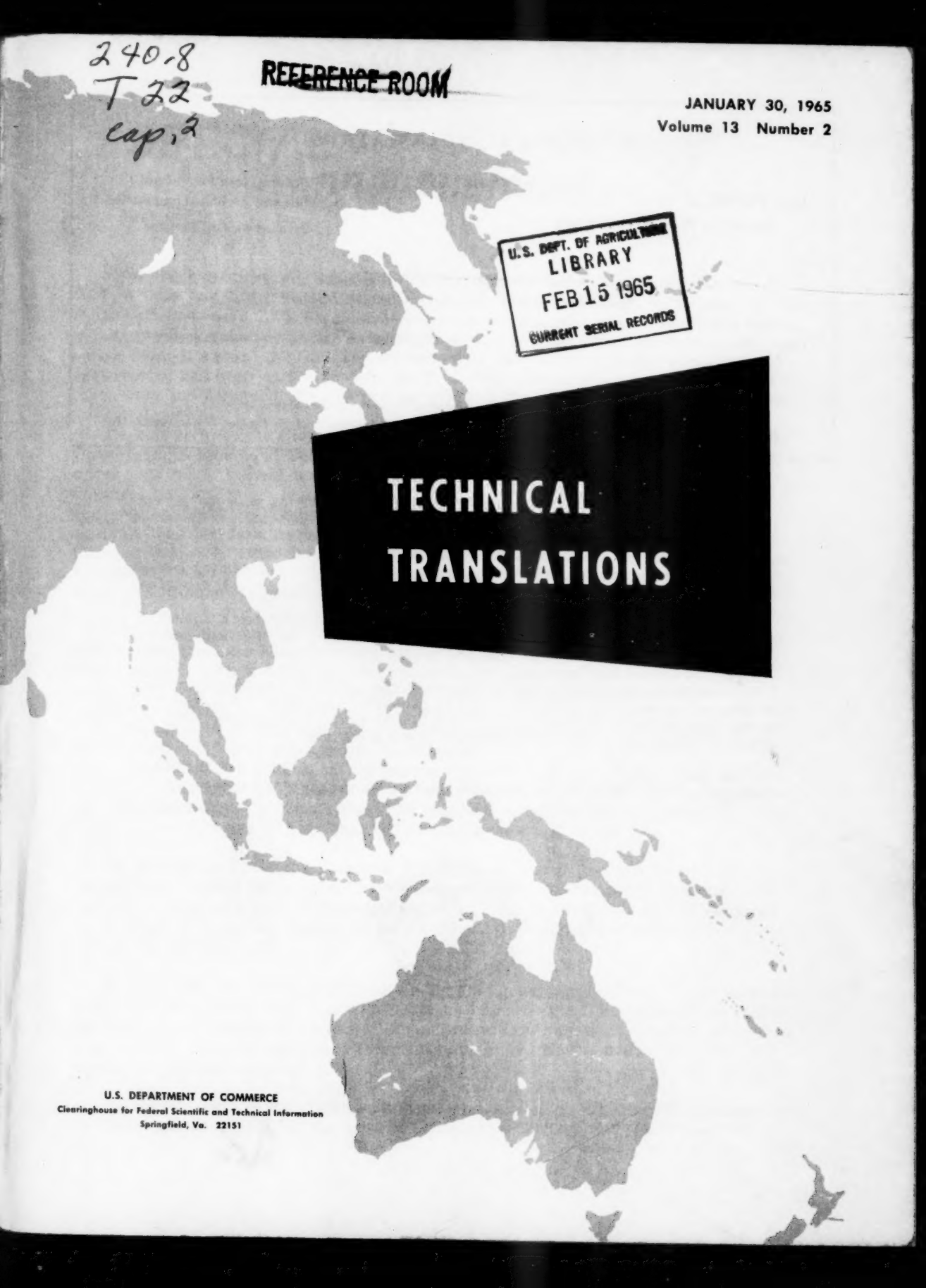

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Clearinghouse for Federal Scientific and Technical Information
Springfield, Va. 22151

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, Secretary

Clearinghouse for Federal
Scientific and Technical Information
Bernard M. Fry, Director

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Use of funds for printing this publication approved by the Director of the Bureau of the Budget, November 22, 1961

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The Special Libraries Association is responsible for collecting translations from non-Government sources, both domestic and foreign; the Clearinghouse for collecting translations from both U.S. and foreign government sources since 1940.

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COMMERCE ESTABLISHES "CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION"

A Clearinghouse for Federal Scientific and Technical Information to serve as the central source for Government research data in the physical sciences and engineering has been established in the U. S. Department of Commerce, and has taken over the document distribution program of the Office of Technical Services.

Development of the Clearinghouse was endorsed last February by the Federal Council for Science and Technology as a step toward making results of Federally-sponsored research and development more readily available to industry, universities, scientists and engineers. Through this interagency endorsement, unclassified technical reports and translations generated by all Government agencies will be made accessible through a single agency. In addition the Clearinghouse has been charged with the responsibility for providing information on Federal research in progress and operating a referral service to sources of specialized technical expertise in the Government.

The Clearinghouse has undertaken an expansion of staff and facilities and is now moving to carry out these missions. The agency is using computer and other modern data processing and reproduction equipment and techniques in order to speed and increase the flow of technical information to scientists and engineers throughout the country. To further increase efficiency, all Clearinghouse personnel and facilities were established in a new building in Springfield, Va., near Washington, in October.

The Clearinghouse is a part of the new Institute for Applied Technology in the National Bureau of Standards. The Institute is headed by Dr. Donald A. Schon. The director of the Clearinghouse is Bernard M. Fry.

In addition to providing research information to industry, the Clearinghouse is designed to reduce duplication in both industry and Government in research and information processing. Substantial savings to the Government will be realized as a result of reducing duplication of document processing and distribution within the Government.

A major step in this direction was a recent agreement between the Department of Commerce and the Department of Defense whereby the Clearinghouse assumed the task of processing all unclassified/unlimited DoD research reports, as well as reproduction and distribution of these documents to both the public and DoD agencies and contractors.

Hereafter, orders for documents formerly handled by OTS should be addressed to Clearinghouse, U. S. Department of Commerce, Springfield, Va. 22151.

AD and NASA ACCESSION NUMBERS

Translations received by the Clearinghouse with AD or NASA accession numbers will be announced under those numbers. They no longer will carry a separate TT number in the journal announcement.

Please order these documents by the accession number indicated for each entry.

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HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood, California 90046

AGI
AGI Translations Office
American GEological Institute
1444 N Street, N. W.
Washington, D. C. 20005

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
Suite 506, 1145 19th Street, N.W.
Washington, D. C. 20036

AIAA
American Institute of Aeronautics & Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. & The Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Avenue
New York, New York 10003

ARS
American Rocket Society, Inc.
20th & Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron & Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises, Inc.
227 West 17th Street
New York, New York 10011

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion,
Patronato Juan de la Cierva,
Serrano 150, Apartado 743
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIRO
Commonwealth Scientific & Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D. C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

EURO-T.S.
Euro-Translation Service
20 Rue Europe
Grivegnee (Liege), Belgium

FASEB
Feferation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D. C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire, England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P. O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P. O. B. 569
London, S. E. 1, England

HTCBN
Hungarian Trading Company for Books & Newspapers "Kultura"
Budapest 62, P. O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Connecticut 06097

INT
International Patent Service, N.V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
Kiryat Moshe
P. O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H-
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D. C. 20540

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S. E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MPIK
Max-Planck-Institut fur Kohlenforschung
Bibliothek der Abteilung Strahlenchemie Stiftstrasse 34-36
433 Mulheim and der Ruhr, West Germany

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NRCC
National Research Council, Library
Ottawa, 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

OTS
Clearinghouse for Federal Scientific & Technical Information (Formerly Office of Technical Services)
Port Royal & Braddock Roads
Springfield, Virginia 22151
(Also available through Department of Commerce Field Offices)

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
Japanese Language Translation Service
15/2027 Chogo
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TC
Trans-Chem
1216 Oakdale, S. E.
Knoxville, Tennessee 37914

TDL
Mr. John Wiley
Technical Development Laboratories
P. O. Box 769
Savannah, Georgia 31400

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street,
London, E. C. 4, England

TIB
Technische Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W. C. 2, England

TTIS
Translation and Technical Information Services
32 Manaton Road
London, S. E. 15, England

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba Hamamatsu-Cho
Minato-ku, Tokyo, Japan

CUMULATIVE INDEXES

The following Cumulative Indexes for Technical Translations are available from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402;

Volume 9 January - June	1963	$1.00
Volume 8 July - December	1962	$1.00
Volume 7 January - June	1962	$1.00
Volume 6 July - December	1961	$1.00
Volume 5 January - June	1961	$1.00
Volume 4 July - December	1960	$1.00
Volume 3 January - June	1960	$1.00
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TECHNICAL TRANSLATIONS

Volume 13, Number 2 | Pages 67 - 137 | January 30, 1965

AGRICULTURE

Alpat'ev, A.M.
UBER DIE VERFAHREN ZUR BESTIMMUNG DER BODENVERDUNSTUNG (O Metoda Opredeleniya Ispareniya s Pochvy). 9p.
Order from ETC $1.10 TT-63-27130

Trans. in German of Vestnik Sel'skokhozyaistvennoi Nauki (USSR) 1961, v.6, no.8, p.128-130.

Berezin, M.
MASCHINEN FUR DIE SCHILFERNTE (Mashiny dlya Uborki Kamysha). 2 Aug 63, 6p.
Order from ETC $1.10 TT-63-27834

Trans. in German of Tekhnika v Sel'skom Khozyaistve (USSR) 1961, v.21, no.11, p.52-54.

Hou, Hsueh-yu, Hsiao, Tse-hung, Lu, Fa-hsi, Chang, Hsien-wan, and Chung, Kung-fu.
AGRICULTURAL PRODUCTION IN THE SOUTH. 13 Aug 64, 10p JPRS: 25901 (p. 27-36).
Order from OTS HC $2.00, MF $0.50 in TT-64-41172 (p. 27-36)

Trans. from Jen Min Jih Pao (Chinese People's Republic) 1964, 24 Jun, p. 5.

Lauwe, M. J. Chombart de.
ECONOMIC ASPECTS OF THE UTILIZATION OF AGRICULTURAL EQUIPMENT IN COMMON. CHAP. I. THE COOPERATIVES FOR THE UTILIZATION OF MACHINERY IN COMMON (Aspects Economiques de l'Utilisation en Commun du Materiel Agricole). [1963] [49p]
Order from SLA $4.60 TT-64-10290

Partial trans. (p. 137-158) of Société Française d'Economie Rurale. Bulletin, 1952, v. 4, no. 4, p. 121-187.

Mihailovic, Stevan.
EXPANDING THE ARABLE AREA ON THE SOCIALIZED FARMS. East European Agriculture, Forestry, and Food Industries: Translations no. 290. 25 Aug 64, 22p JPRS: 26124.
Order from OTS HC$1.00, MF$0.50 TT-64-41384

Trans. of Socijalizam (Yugoslavia) 1964, v. 7, no. 6, p. 749-770.

Mishev, Vasil and Savov, Kostadin.
ESTABILISHING THE LEVEL OF LIVESTOCK PRODUCTION [AND] IMPROVING THE METHOD OF MEASURING THE LEVEL OF EXPENDITURES FOR THE PROCUREMENT OF AGRICULTURAL PRODUCTS. East European Agriculture, Forestry, and Food Industries: Translations no. 282. 11 Aug 64, 18p JPRS: 25850.
Order from OTS HC $1.00, MF $0.50 TT-64-41121

Trans. of Planova Stopanstvo i Statistika (Bulgaria) 1964, v. 19, no. 6, p. 27-44.

Pott, Emil.
INVESTIGATIONS IN REGARD TO PROPAGATION OF HEAT IN THE SOIL BY CONDUCTION. [86p] refs
Order from SLA $8.10 TT-60-16717

Trans. in manuscript of Landwirtschaftlichen Versuchsstationen (Germany) 1877, v. 20, p. 273-355.

Rizaev, N.U., Rustamov, Kh.R., and Korol'kov, N.M.
EXTRACCION DEL ACIDO TARTARICO A PARTIR DE RESIDUOS AGRICOLAS EMPLEANDO RESINAS DE INTERCAMBIO IONICO (Izvlechenie Vinnoi Kisloty, iz Otkhodov Vinodeniya Ionoobmennymi Smolami). 7p. 3 refs. CID: 63-404.
Order from ETC or CID $1.10 TT-63-27629

Trans. in Spanish of Uzbekskii Khimicheskii Zhurnal (USSR) 1960, no.5, p.28-30.

Stefanelli, G.
WESHALB ERFORDERT DIE MECHANISATION DER LANDWIRTSCHAFT EINE FACHAUSBILDUNG? (Perche una Istruzione Professionale per la Meccanizzazione Agricola?). 4p.
Order from ETC $1.10 TT-63-27838

Abstract trans. in German from Convegno Nazionale delle Scuole per l'Istruzione Professionale della Meccanizzazione Agricola (no. 1) Foligno, 24-25 Nov 61. Atti.

Animal Husbandry

Edelbeck-Frederiksen, M. J. and Rasmussen, F.
MAMMARY AND RENAL EXCRETION OF SULFACHLOROPYRIDAZINE IN COWS. 7p.
Order from ATS $10.25 ATS-10R79D

Trans. of Nord[isk] Vet[erinärmed[icin] (Denmark) 1964, v. 16, p. 632-642.

Pozin, M.E., Kopylev, B.A., and Zinyuk, R.Yu.
OBTENCION DE UN PRECIPITADO, DESTINADO COMO ALIMENTO PARA EL GANADO, A PARTIR DEL SUPERFOSFATO (Poluchenie Kormovogo Pretsipitata iz Superfosfata). 26p. 22 refs. CID: 63-442.
Order from ETC or CID $2.60 TT-63-27667

Trans. in Spanish of #Zhurnal Prikladnoi Khimii (USSR) 1962[v. 35] no.7, p.1415-1423.

Plant Cultivation

Godnev, T.N., Sudnik, N.S., and Syubarova, E.P.
NUTRICION DE FRUTALES POR ROCIADA DE SOLUCIONES DILUIDAS EQUILIBRADAS DE SUSTANCIAS NUTRIENTES (O Podkormke Plodovykh Derev'ev Opryskivaniem Razbavlennymi Uravnoveshennymi Pitatel'nymi Rastvorami). 8p. 5 refs. CID: 63-411.
Order from ETC or CID $1.10 TT-63-27636

Trans. in Spanish of Akademiya Nauk SSSR. Doklady, 1950, v.73, no.4, p.835-836.

Loeters, J. W. and Stam, J. C.
THE STERILIZATION OF SEED BEDS FOR TOBACCO BY A SIMPLIFIED METHOD. 8p.
Order from K-H $4.80 K-H-2818-b

Trans. of Mededelingen Directeur van de Tuinbouw (Netherlands) 1952, v. 15, no. 9, p. 811-815.

Montreuil, J. E.
CHEMICAL FERTILIZERS AND CULTIVATION OF CIGAR AND PIPE TOBACCOS AND YELLOW TOBACCOS. 14p.
Order from K-H $8.40 K-H-2396-f

Trans. of Revue d'Oka, Agronomie, Medicine Veterinaire (Canada) 1940, v. 14, no. 3, p. 69-78.

Popov, V.A.
DIE MECHANISIERUNG DER STECKLINGSPFLANZUNG (Mekhanizatsiya Posadki Vysadkov). 6p.
Order from ETC $1.10 TT-63-27129

Trans. in German of Sakharnaya Svekla (USSR) 1962, v.7, no.1, p.17-19.

ASTRONOMY

Astrophysics

PROBLEMS OF COSMOGONY, 1954, VOL. 3. 6 Jul 64, 434p JPRS: 25359.
Order from OTS HC $6.00, MF $2.00 TT-64-31632

Trans. of Voprosy Kosmogonii (USSR) 1954, v. 3, p. 1-363.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

PROBLEMS OF MOTION OF ARTIFICIAL CELESTIAL BODIES (Problemy Dvizheniya Iskusstvennykh Nebesnykh Tel). 7 Aug 64 [326p] FTD-MT-64-226.
Order from OTS HC $7.00, MF $1.50 AD-608 295

Edited machine trans. of mono. Konferentsii po Obshchim i Prikladnym Voprosam Teoreticheskoi Astronomii (Conference on General and Applied Problems of Theoretical Astronomy) Moscow, 20-25 Nov 61. Doklady, Moscow, 1963, 294p.

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RESULTS OF OBSERVATIONS OF MARS IN THE USSR DURING THE GREAT OPPOSITION OF 1956. Dec 62, 201p 106refs NASA Technical Trans-F-93.
Order from OTS HC$6.00, MF$1.25 N63-11212

Trans. of mono. Rezul'taty Nablyudenii Marsa vo Vremya Velikogo Protivostoyaniya 1956 g. v SSSR, Moscow, 1959.

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Bogorodskii, A.Th.
AU SUJET DE LA NATURE DE DECALAGE ROUGE DANS LES SPECTRES DES NEBULEUSES EXTRAGALACTIQUES. 18p. CNRS-XXXVII 5.
Order from ETC or CNRS $1.60 TT-63-26495

Trans. in French of Astronomicheskaya Observatoriya, Pulkovo. Tsirkulyar (USSR) 1940, no.29, n.p.

Komel'kov, V.S.
SUR UN MECANISME POSSIBLE D'EJECTION SUR LE SOLEIL. 6p. 12 refs. CNRS-XXV 763.
Order from ETC or CNRS $1.10 TT-64-26422

Trans. in French of Akademiya Nauk SSSR. Doklady, 1962, v.146, no.1, p.58-61.
Trans. in English is available from OTS or SLA $1.60 as 63-13476, JPRS-16590; NASA N63-10978, 10 Dec 62, 13p.

Lyot, B.
RESEARCH ON THE POLARIZATION OF LIGHT FROM PLANETS AND FROM SOME TERRESTRIAL SUBSTANCES (Recherches sur la Polarisation de la Lumiere des Planetes et de Quelques Substances Terrestres) A. Pinto and L. Pinto, trs. Jul 64, 144p NASA Technical Trans. F-187.
Order from OTS HC$3.00, MF$1.00 N64-27068

Trans. of Observatoire d'Astronomie Physique, Meudon, Annales (France) 1929, v. 8, no. 1.

Troitskii, V. S.
RADIATION OF THE MOON, PHYSICAL CONDITION AND NATURE OF ITS SURFACE (Radioizluchenie Luny, Fizicheskoe Sostoyanie i Priroda Ee Poverkhnosti) George Synenko, tr. Mar 62 [34p] 33refs ACIC TC-473.
Order from OTS HC $2.00, MF $0.50 TT-64-19752

Trans. of [Akademiya Nauk SSSR. Kommissiya po Fizike Planet. Izvestiya, 1961, v. 3] p. 16-30. Another trans. is available from OTS HC $0.75, MF $0.50 as N64-24832, NASA-TT-F-172; an abstract trans. is available from OTS or SLA $1.10 as TT-62-33575, AID-62-149, 21 Sep 62, 2p.

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JPRS: 25,653

ACHIEVEMENTS OF MODERN BIOLOGY

(Uspekhi Sovremennoi Biologii)
1964, VOL. 57, NO. 1

[Following is a translation of four articles in the Russian-language periodical Uspekhi Sovremennoy Biologii (Achievements of Modern Biology), Vol 57, No 1, Moscow, 1964. Complete bibliographic information accompanies each article.]

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(Peredovnoi Nauchno-Tekhnicheskii i Proizvodstvennvi Opyt)

1962, TEMA 30, NO. PM-62-2/2.

JPRS: 26,037

INSTRUMENTS AND APPARATUS FOR BIOLOGICAL INVESTIGATION AND MEDICAL DIAGNOSTICS

[Following is a translation of a Russian-language booklet entitled Peredovoy Nauchno-Tekhnicheskiy i Proizvodstvennyy Opyt (Advanced Scientific and Technical and Industrial Experience), Moscow, 1962, pp 1-24.]

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JPRS: 25,642

ALUMINUM ALLOYS

(Alyuminievve Splavy)
1963, NO. 3

/Following is the translation of the Russian-language book Alyuminiyevvye Splavy (Aluminum Alloys), No 3, Deformable Alloys (A Collection of Works) edited by I.N. Fridlyander, Moscow, 1963, pp 1-404./

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1961, NO. 5.
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AUTOMATIC WELDING
(Avtomaticheskaya Svarka)

1964, VOL. 17, NO. 2.

ELECTROSLAG WELDING AND REMELTING

/Following is a translation of articles taken from the Russian-language journal Avtomaticheskaya Svarka (Automatic Welding), No 2, February 1964, Kiev. Bibliographic information accompanies each article./

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BIOCHEMISTRY

(Biokhimiya)

1964, VOL. 29, NO. 2

RECENT SOVIET STUDIES IN BIOCHEMISTRY

[Following are translations of three articles from the Russian-language journal Biokhimiya (Biochemistry), Vol XXIX, No 2, Moscow, March/April 1964. Complete biographical information accompanies each article.]

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JPRS: 25,652

BIOPHYSICS

(Biofizika)
1964, VOL. 9, NO. 2

SOVIET RESEARCH IN BIOPHYSICS

[Following is a translation of articles by various authors from the Russian-language periodical Biofizika (Biophysics), Vol IX, No 2, Moscow, 1964. Additional bibliographic information accompanies each article.]

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THE BRAIN AND REGULATION OF FUNCTIONS

(Golovnoi Mozg i Regulyatsiya Funktsii)

KIEV, 1963

SOVIET RESEARCH ON HIGHER NERVOUS ACTIVITY
UNDER PATHOLOGICAL CONDITIONS

[Following is the translation of articles in the Russian-language publication Golovnoy Mozg i Regulyatsiya Funktsiy (The Brain and Regulation of Functions), Editor-in chief: Prof A. F. Makarchenko, Kiev, 1963; Academy of Sciences Ukrainian SSR Publication. Specific authors and pagination accompany each article.]

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Following is a translation of six articles in the Russian-language periodical Byuleten' Eksperimental'ney Biologii i Meditsiny (Bulletin of Experimental Biology and Medicine), Vol. LVII, No. 3, Moscow 1964. Complete bibliographic information accompanies each article.

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BULLETIN OF TECHNICAL AND ECONOMIC INFORMATION

(Byulleten' Tekhniko-Ekonomicheskoi Informatsii)
1964, no. 3

USSR Industrial Development

SOVIET METALWORKING EQUIPMENT

No. 104

This serial publication contains translations of selected articles on metalworking equipment in the Soviet Union, on the specific subjects indicated in the table of contents. Complete bibliographic information accompanies each article.

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JPRS: 25,764

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(Akademiya Nauk Latviiskoi SSR, Riga. Izvestiya)

1964, NO. 1(198)

PHYSICO-TECHNICAL STUDIES IN THE USSR

[Following is the translation of selected articles on physico-technical sciences in the USSR on the specific subjects indicated in the table of contents. Complete bibliographic information accompanies each article.]

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CHEMISTRY IN AGRICULTURE

(Khimiya v Sel'skom Khozyaistve)

1963, VOL. 1, NO. 1

/Following is a translation of the Russian-language periodical Khimiya v Sel'skom Khozyaystve (English version above), No 1, Moscow, State Publishing House of Chemical Literature, 1963, pages 1-63. Additional bibliographic information accompanies each article./

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JPRS: 25,661

CONSTRUCTION AND ROAD MACHINERY

(Stroitel'nye i Dorozhnye Mashiny)

1964, VOL. 9, NO. 4

USSR Industrial Development

SOVIET CONSTRUCTION MACHINERY

No. 58

This serial publication contains translations of selected articles on construction machinery in the Soviet Union on the specific subjects indicated in the table of contents. Complete bibliographic information accompanies each article.

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COSMIC RAYS: COLLECTION OF ARTICLES

(Kosmicheskie Luchi: Sbornik Statei)

1961, NO. 3.

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JPRS: 26,340

CURRENT PROBLEMS IN ANESTHESIA

Moscow, 1963

Following is a translation of four articles and the table of contents of the Russian-language book Aktual'nyye voprosy obezbolivaniya (Current Problems in Anesthesia) edited by T. P. Makarenko, Moscow, 1963. Names of authors and original source page numbers accompany each article.

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JPRS: 25,424

CYTOLOGY
(Tsitologiya)

1964, VOL. 6, NO. 2.

STUDIES IN CYTOLOGY

/Following is a translation of three articles selected from the Russian-language journal Tsitologiya (Cytology), Vol. VI, No. 2, Moscow, 1964, Pages 133-151, 175-182, and 183-192./

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ELECTRICAL ENGINEERING IN JAPAN

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JPRS: 25,622

ENGINEERING JOURNAL

(INZHENERNYI ZHURNAL)

1964, VOL. 4, NO. 1.

- USSR -

This publication contains translations of 12 articles selected from the Russian-language periodical Inzhenernyy Zhurnal (Engineering Journal), Vol IV, No 1, Moscow, 1964. Complete bibliographic information accompanies each article.

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JPRS: 25,605

FISHING INDUSTRY

1964 [VOL. 40] NO. 1

STUDIES IN FISH-CATCHING, FISH-BREEDING, AND PISCICULTURE IN THE USSR

[Following are translations of five articles in the Russian-language journal Rybnoye Khozyaystvo (Fishery Economy), No 1, Moscow, 1964. Complete bibliographic information accompanies each article.]

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JPRS: 25,581

FISHING INDUSTRY
(Rybnoe Khozyaistvo)

1964, VOL. 40, NO. 4.

GENERAL STUDIES ON THE FISHING INDUSTRY

This report contains translations of a number of articles in the Russian-language journal Rybnoye Khozyaystvo (Fishing Industry), No 4, Mosocw, 1964. Complete bibliographic information accompanies each article.

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GEOBOTANICAL MAPPING

Moscow/Leningrad, 1963

[Following is a complete translation of a Russian-language book edited by V. B. Sochava and T. I. Isachenko entitled Geobotanicheskoye Kartografirovaniye (English version above), published by the Academy of Sciences USSR, Moscow-Leningrad, 1963, pp 3-72.]

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JPRS: 25,406

GEOLOGY AND GEOPHYSICS

1964, NO 2

STUDIES ON EARTHQUAKES AND THE GEOLOGY OF ORE ZONES

- USSR -

Following is a translation of three articles in the Russian-language journal Geologiya i Geofizika (Geology and Geophysics), No. 2, Novosibirsk, February 1964. Complete bibliographic information accompanies each article.

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JPRS: 25,555

HERALD OF COMMUNICATIONS
(Vestnik Svyazi)

1964, VOL. 24, NO. 5(290)

Following is a translation of the Russian-language periodical Vestnik svyazi (Herald of Communications), Vol XXIV, No 5, published by the Ministry of Communications USSR and the Central Committee of the Communications, Motor Transport and Highway Workers Trade Union, May 1964, Moscow. Note: Original source pages are given in the left-hand margin.

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JPRS: 26,211

HERALD OF COMMUNICATIONS

(Vestnik Svyazi)

1964, VOL. 24, NO. 6(291)

Following is a translation of the Russian-language periodical Vestnik svyazi (Herald of Communications), Vol XXIV, No 6, published by the Ministry of Communications USSR and the Central Committee of the Communications, Motor Transport and Highway Workers Trade Union, June 1964, Moscow. Note: Original source pages are given in the left-hand Margin. Summaries within brackets are those of the translator. This issue of the journal is devoted to the problems of rural telephone service.

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JPRS: 25,208

HERALD OF THE ACADEMY OF MEDICAL SCIENCES USSR,

Vol XIX, No 4, 1964

[Following is a complete translation of the Russian-language medical journal Vestnik Akademii Meditsinskikh Nauk USSR (Herald of the Academy of Medical Sciences USSR), Vol XIX, No 4, Moscow, 1964, pp 3-104.]

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JPRS: 25,417

HERALD OF THE ACADEMY OF SCIENCES USSR
(Akademiya Nauk SSSR. Vestnik)

1964, VOL. 34, NO. 3.

GENERAL MEETING OF THE ACADEMY OF SCIENCES USSR

[Following are translations of selected articles from the Russian-language publication Vestnik Akademii Nauk SSSR (Herald of the Academy of Sciences USSR), Moscow, No 3, 1964. Complete bibliographical information is furnished with the individual articles.]

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HERALD OF THE ACADEMY OF SCIENCES USSR
(Akademiya Nauk SSSR. Vestnik)

1964, VOL. 34, NO. 4.

JPRS: 25,717

Following is the complete translation of the Russian-language publication Vestnik Akademii nauk SSSR (USSR Academy of Sciences Journal), No 4, Moscow, April 1964, pages 1-184. The names of the speakers on the various scientific activities accompany each individual article.

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JPRS: 25,138

Izvestiya VUZov: RADIO ENGINEERING

- USSR -

No 1, 1964

Following is a translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy: Radiotekhnika (News of Higher Educational Institutions: Radio Engineering), Vol VII, No 1, January-February 1964, Kiev, pp 1-128.

(Note: Illustrations are given at the end of each article. Original source page numbers are given in the left-hand margin of translation.)

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JPRS: 25,168

Izvestiya VUZov: RADIOPHYSICS

- USSR -

No 1, 1964

Following is a translation of the Russian-language journal Izvestiy Vysshikh Uchebnykh Zavedeniy: Radiofizika (News of Higher Educational Institutions: Radiophysics), Vol VII, No 1, January-February 1964, pp 1-188

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JOURNAL OF CHEMICAL SOCIETY OF JAPAN. INDUSTRIAL CHEMISTRY SECTION

1963, VOL. 66, NO. 11

INFRARED SPECTROSCOPY IN JAPAN

[Following are translations of articles on the above subject in the Japanese-language publication Kogyo Kagaku Zasshi (Industrial Chemistry Journal), Vol LXVI, No 11, November 1963, pp 1543-1559.]

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JOURNAL OF HIGHER NERVOUS ACTIVITY

(Zhurnal Vysshei Nervnoi Deyatel'nosti)
1964, VOL. 14, NO. 2

REFLEX ACTION OF THE NERVOUS SYSTEM

- USSR -

Following is a translation of eight articles in the Russian-language periodical Zhurnal vysshey nervnoy deyatel'nosti (Journal of Higher Nervous Activity), Vol XIV, No 2, Moscow, 1964. Complete bibliographic information accompanies each article.

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MEDICAL INDUSTRY OF THE USSR

(Meditsinskaya Promyshlennost' SSR)
1964, VOL. 18, NO. 7

ARTICLES ON USSR MEDICAL INDUSTRY

/Following is the translation of several items taken from the Russian-language journal Meditsinskaya Promyshlennost' SSSR (USSR Medical Industry), Moscow, Vol 18, No 7, 1964. Additional bibliographic information accompanies each item./

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JPRS: 26,216

MEDICAL RADIOLOGY

(Meditsinskaya Radiologiya)

1964, VOL. 9, NO. 5

TRANSLATIONS FROM JOURNAL MEDITSKINSKAYA RADIOLOGIYA

(MEDICAL RADIOLOGY)

Vol IX, No 5, 1964

[Following are translations of six articles in the Russian-language journal indicated above, Moscow, Vol IX, No 5, May 1964.]

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METEOROLOGY AND HYDROLOGY

(Meteorologiya i Gidrologiya)
1964, NO. 5

STUDIES IN METEOROLOGY

- USSR -

Following is a translation of 14 articles from the Russian-language journal Meteorologiya i Gidrologiya (Meteorology and Hydrology), Moscow, No 5, 1964. Hydrometeorological Publishing House. Author's name and affiliations accompany each article.

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METEOROLOGY AND HYDROLOGY

(Meteorologiya i Gidrologiya)

1964, NO. 7

PROGRESS IN METEOROLOGY AND HYDROLOGY

- USSR -

Following is a translation of 11 articles in the Russian-language journal Meteorologiya i Gidrologiya (Meteorology and Hydrology), No 7, Moscow, 1964. Authors' names and affiliations accompany each article.

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MILITARY KNOWLEDGE

(Voennye Znaniya)

1964, VOL. 40, NO. 5

SOVIET MILITARY TRANSLATIONS

No. 149

(Civil Defense)

This serial publication contains translations of military interest concerning the USSR, on subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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MILITARY KNOWLEDGE

(Voennye Znaniya)

1964, VOL. 40, NO. 6

SOVIET MILITARY TRANSLATIONS

No. 151

(Civil Defense)

This serial publication contains translations of military interest concerning the USSR, on subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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NEWS OF HIGHER EDUCATIONAL INSTITUTIONS. INSTRUMENT BUILDING

(Izvestiya Vysshikh Uchebnykh Zavedenii. Priborostroenie)

1964, VOL. 7, NO. 2

Following is a translation of the Russian-language journal Izvestiya Uchebnykh Zavedeniy: Priborostroyeniye (News of Higher Educational Institutions: Instrument Building), Vol VII, No 2, 1964, Leningrad, pp 3-176.

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NEWS OF HIGHER EDUCATIONAL INSTITUTIONS. NONFERROUS METALLURGY

(Izvestiya Vysshikh Uchebnykh Zavedenii. Tsvetnaya Metallurgiya)
1963, VOL. 6, NO. 3

Izvestiya VUZov: NONFERROUS METALLURGY

-USSR -

No 3, 1963

Following is a translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy: Tsvetnaya Metallurgiya (News of Higher Educational Institutions: Nonferrous Metallurgy), No 3, 1963, Ordzhonokidze, pp 1-166

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NEWS OF THE ACADEMY OF SCIENCES USSR. TECHNICAL CYBERNETICS

(Akademiya Nauk SSSR. Izvestiya. Tekhnicheskaya Kibernetika)

1964, NO. 3

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[Following is the translation of the Russian-language publication Izvestiya Akademii Nauk SSSR, OTN, Tekhnicheskaya Kibernetika (News of the Academy of Sciences USSR, Department of Technical Sciences, Technical Cybernetics) No 3, May-June 1964, pp 1-192.]

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PHYSICIAN'S CALENDAR FOR 1964

(Kalendar' Vracha na 1964 God)

Moscow, 1963

PRACTICAL MEDICINE IN THE USSR

[Following is the translation of selected items in the Russian-language publication Kalendar' Vracha na 1964 god (Physician's Calendar for 1964), Moscow, State Publishing House of Medical Literature, 1963. Specific page numbers appear with each selection.]

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JPRS: 25,359

PROBLEMS OF COSMOGONY
(Voprosy Kosmogonii)

1954, VOL. 3.

PROBLEMS OF COSMOGONY

Volume III

- USSR -

Following is the complete translation of a Russian-language collection of articles entitled Voprosy kosmogonii (Problems of Cosmogony), Volume III, published by the Academy of Sciences USSR, Moscow, 1954, pages 1-363, and signed to the press on 5 May 1954. The names of the authors accompany each section or individual article.

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JPRS: 25,377

PROBLEMS OF HEMATOLOGY AND BLOOD TRANSFUSION
(Problemy Gematologii i Perelivaniya Krovi)

1964, VOL. 9, NO. 4.

STUDIES IN HEMATOLOGY AND BLOOD TRANSFUSION

[Following is a translation of 5 articles in the Russian-language journal Problemy Gematologii i Perelivaniya Krovi (Problems of Hematology and Blood Transfusion), Vol 9, No 4, Moscow, 1964, pp 29-50. Complete bibliographic information accompanies each article.]

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(Problemy Gematologii i Perelivaniya Krovi)

1964, VOL. 9, NO. 6

HEMATOLOGICAL STUDIES IN THE USSR

[Following is the translation of three articles in the Russian-language publication Problemy Gematologii i Perelivaniya Krovi (Problems of Hematology and Blood Transfusion), Moscow, Vol 9, No 6, June 1964. Complete bibliographic information accompanies each article.]

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JPRS: 25,588

PROBLEMS OF NEUROSURGERY

(Voprosy Neirokhirurgii)

1964, VOL. 28, №. 3

NEUROSURGERY IN THE USSR

[Following is the translation of articles in the Russian-language publication Voprosy Neyrokhirurgii (Problems of Neurosurgery), Moscow, Vol XXVIII, No 3, May/June 1964. Complete bibliographic information accompanies each article.]

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JPRS: 25,421

PROBLEMS OF NUTRITION
(Voprosy Pitaniya)

1964, VOL. 23, NO. 2.

VARIOUS STUDIES IN NUTRITION

- USSR -

Following are translations of five articles in the Russian-language journal Vopsrosy Pitaniya (Problems of Nutrition), Vol XXIII, No 2, Moscow, March-April 1964. Complete bibliographic information accompanies each article.

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MOSCOW, 1961.

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(Akademiya Nauk Latviiskoi SSR, Riga. Izvestiya. Seriya Fizicheskikh i Tekhnicheskikh Nauk)

1964, NO. 3.

JPRS: 26,028

SIMULATION AND CONTROL OF PHYSICAL AND CHEMICAL SYSTEMS

- USSR -

Following is a translation of three articles in the Russian-language periodical Izvestiya Akademii Nauk Latviyskoi SSR, Seriya Fizicheskikh i Tekhnicheskikh Nauk (Proceedings of the Academy of Sciences of the Latvian SSR, Physical and Technical Science Series) No. 3, Riga, 1964, pages 77-87, 95-102, 103-119. Complete bibliographic information accompanies each article.

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(Vsesoyuznoe Nauchnoe Meteorologicheskoe Soveshchanie (no. 1). Trudy)

VOL. 1, LENINGRAD, 1962.

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JPRS: 25,704

PROSPECTING AND INDUSTRIAL GEOPHYSICS

1963, VOL. 48

SEISMOGRAPHIC PROSPECTING EQUIPMENT

- USSR -

Following is a translation of three articles in the Russian-language periodical Razvedochnaya i promyslovaya geofizika (Prospecting and Industrial Geophysics), No. 48, Moscow 1963, pages 45-47, 63-65, 87-91.

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JPRS: 25,824

REPORTS OF THE ACADEMY OF SCIENCES USSR

(Akademiya Nauk SSSR. Doklady)
1964, VOL. 155, NO. 3

NUCLEIC ACIDS, AND VISUAL PERCEPTION: THREE STUDIES

- USSR -

Following is a translation of three articles in the Russian-language periodical Doklady Akademii nauk SSSR (Reports of the Academy of Sciences USSR), Moscow, Vol 155, No 3, 1964. Complete bibliographic information accompanies each article.

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(Resul'taty Nablyudenii Marsa vo Vremya Velikogo Protivostoyaniya 1956 g. v SSSR)
MOSCOW, 1959.

Translation of articles in the Russian book Resul'taty nablyudeniy Marsa vo vremya velikogo protivostoyaniya 1956 g. v SSSR (Results of Observations of Mars in the USSR during the Great Opposition of 1956.) USSR Academy of Sciences Publishing House. The Astronomic Council, Committee of Planetary Physics, Moscow, 1959.

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JPRS: 25,506

SCIENCE AND LIFE
(Nauka i Zhizn')

1964, VOL. 31, NO. 2.

TRANSLATIONS FROM "NAUKA I ZHIZN'"
(Science and Life)
Vol XXX, No 2, 1964

[Following is a translation of a number of articles in the Russian-language journal Nauka i Zhizn'(Science and Life), Vol XXX, No 2, Moscow, 1964. Complete bibliographic information accompanies each article.]

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SCIENTIA

(K'o Hsüeh T'ung Pao)

1964, NO. 4

SCIENCE AND TECHNOLOGY IN COMMUNIST CHINA

No. 100

This serial publication contains translations of selected articles on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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JPRS: 26,128

SCIENTIA

1964, NO. 6

TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY

No. 105

This serial publication contains summaries or translations (as indicated) of selected articles on Communist China's science and technology, on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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SCIENTIA

(K'o Hsüeh T'ung Pao)

1964, NO. 6

TRANSLATIONS ON COMMUNIST CHINA'S SCIENCE AND TECHNOLOGY

No. 108

This serial publication contains summaries or translations (as indicated) of selected articles on the specific subjects reflected in the table of contents. Complete bibliographic information accompanies each article.

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SCIENTIFIC REPORTS OF HIGHER SCHOOLS. BIOLOGICAL SCIENCES

1964, NO. 2

BIOLOGICAL STUDIES ON AMOEBAS, TICKS, BEES, AND ZOOPLANKTON

[Following are translations of four articles in the Russian-language journal Nauchnyye Doklady Vysshey Shkoly, Biologicheskiye Nauki (Scientific Reports of Higher Schools, Biological Sciences), Moscow, No 2, 1964. Complete bibliographic information accompanies each article.]

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(Sovetskoe Zdravookhranenie)

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PROJECTED MEASURES FOR THE IMPROVEMENT OF PUBLIC HEALTH IN THE SOVIET UNION

[Following are translations of three articles in the Russian-language journal Sovetskoye Zdravookhraneniye (Soviet Public Health), Vol XXIII, No 7, Moscow, 1964. Complete bibliographic information accompanies each article.]

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(Standartizatsiya)

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USSR Industrial Development

SOVIET CHEMICAL MACHINE BUILDING

No. 48

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SURGICAL RESEARCH IN THE USSR

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• The Department of Commerce maintains Field Offices in the cities listed below for the purpose of providing ready access to the reports, publications, and services of the Business and Defense Services Administration, Bureau of International Commerce, Office of Technical Services, Office of Business Economics, and the Bureau of the Census. Information on activities of the National Bureau of Standards, Patent Office, and the Area Redevelopment Administration are also available.

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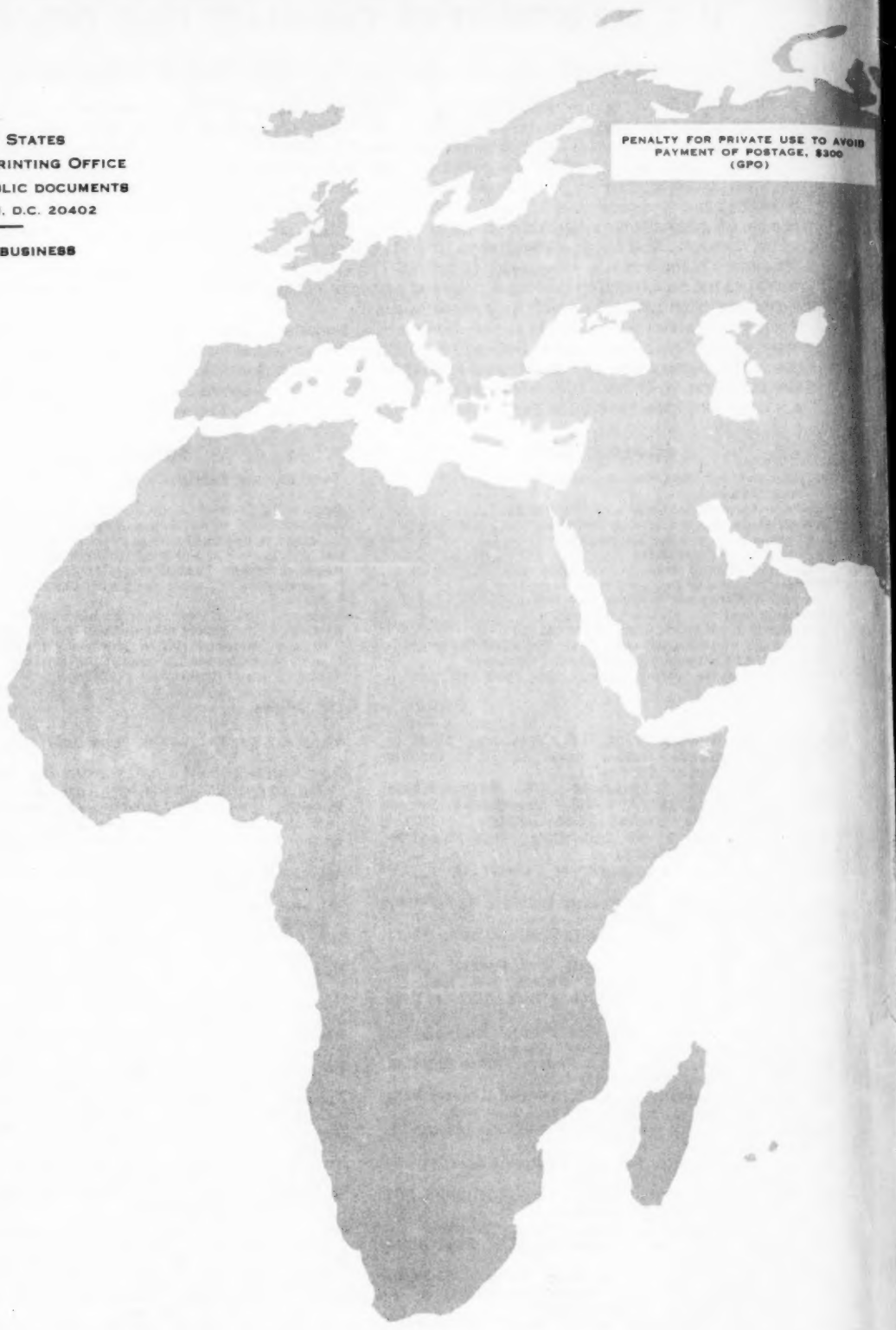

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